

## **SECTION 17: ASPHALT CONCRETE PAVEMENT**

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**17-01 SCOPE.** Asphalt concrete shall conform to the requirements of Section 39, "Asphalt Concrete," of the Standard Specifications except as modified herein.

**17-02 MATERIAL AND CONSTRUCTION.** Asphalt concrete shall be Type B (medium) and shall be of the thickness as shown on the Plans or as specified in the Special Provisions. Maximum aggregate size shall be as follows:

<u>Thickness AC</u>	<u>Max. Agg.</u>
1" and 1-1/2" Surface Course	1/2"
2" and 2-1/2" Surface Course	3/4"
Base Course	3/4"

Surface course layer of asphalt concrete shall not exceed two and one-half inches (2-1/2") nor be less than one and one-half inches (1-1/2") in compacted thickness.

Compaction shall be a minimum of ninety-five percent (95%) of the laboratory maximum density of the asphalt concrete. Laboratory maximum density shall be determined by field samples submitted to a testing laboratory by the Engineer. Cost for testing shall be paid by the City.

Asphalt binder to be mixed with aggregate shall be paving asphalt, having a viscosity grade of AR-4000 and shall conform to the requirements of Section 92, "Asphalts," of the Standard Specifications.

The prime coat shall be liquid asphalt (SC-70) conforming to the requirements of Section 93, "Liquid Asphalts," of the Standard Specifications. As much liquid asphalt shall be applied to the prepared base as will soak in during a twenty-four (24) hour period without puddling. Sand cover shall be applied at driveways, intersections and to the roadbed surface where continuous traffic access must be maintained.

Paint binder (asphaltic tack coat) shall be asphaltic emulsion Grade SS-1h, and shall conform to the requirements of Section 94, "Asphaltic Emulsions," of the Standard Specifications. The rate of application shall be approximately 0.05 to 0.15 gallon per square yard. The exact rate of application will be determined by the Engineer. A one-to-one (1:1) dilution of SS-1h in water shall be used. It is important that the water be added to the emulsion, NOT the emulsion to the water, to prevent premature breaking.

Newly installed asphalt concrete shall be fog sealed in accordance with Section 19, "Fog Seal," of these Standard Provisions.

The Contractor is required to provide adequate protection of the subgrade, aggregate subbase, aggregate base and other materials if the asphalt concrete pavement is not placed within a specified time as determined by the Engineer. Retesting of the subgrade, aggregate subbase, aggregate base or other material will be required and will be paid for by the Contractor, if the asphalt concrete pavement is not placed within a specified time as determined by the Engineer.

**17-03 MEASUREMENT.** Asphalt concrete shall be measured by the square foot in place or by the ton as determined from certified weight tickets furnished at the time of delivery to the Engineer in the field. At the end of each workday, total weight tags shall be delivered to the Engineer.

**17-04 PAYMENT.** The contract unit price paid per square foot or per ton in place shall be considered to be full compensation for furnishing and placing the asphalt concrete section, including the prime coat, paint binder and sand cover, as required in the Special Provisions, shown on the Plans, directed by the Engineer and specified herein. Fog seal shall be paid for under Section 19, "Fog Seal," of these Standard Provisions.